

AN ANNOTATED CHECK-LIST TO THE VASCULAR FLORA OF THE UBISANA VALLEY, MTUNZINI, ZULULAND

H. J. T. VENTER

(Department of Botany, University of Zululand)

ABSTRACT

A check-list with notes on the growth form, habitat, flowering period and flower colour of the plant species of the Ubisana Valley is presented.

UITTREKSEL

'N GEANNOTEEERDE KONTROLELYS VAN DIE VAATPLANTE VAN DIE UBISANA-VALLEI, MTUNZINI, ZULULAND.

'n Kontrolelys met notas oor groeivorm, habitat, blomtyd en blomkleur van die plantsoorte van die Ubisana-vallei word aangebied.

INTRODUCTION

The Ubisana Valley is situated approximately 4 km north-east of the well-known and important Ngoye Forest Reserve on the slope of the Ngoye Mountain in the Mtunzini District of Zululand. The valley extends over approximately 1,3 km², and varies in altitude from 48 to 183 m above sea-level.

The general climate is sub-tropical. Precipitation, temperature and humidity are high, especially during summer.

The vegetation varies from xerophytic to mesophytic and hydrophytic. Tree, grass and sedge communities form the major components of the vegetation (Venter, 1969).

The flora of the Ubisana Valley forms part of the Zululand Coast Flats Flora, but a number of species come from the neighbouring thornveld.

This check-list forms part of an ecological survey carried out in the Ubisana Valley (Venter, 1969).

FLORISTIC DATA

The vascular flora of the Ubisana Valley is represented by 106 families, 423 genera and 660 species. Twenty five species belong to the Pteridophyta, one to the Gymnospermae, 191 to the Monocotyledoneae and 443 to the Dicotyledoneae. Collecting was carried out intensively over a period of four years and as the Ubisana Valley only covers some 1,3 km² very few species could have escaped detection.

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The most important families and genera comprising one percent or more of the total number of species present, are listed in Tables 1 and 2 respectively.

An attempt was made to analyse the flower colour representation in the Ubisana Valley Flora (Table 3). Data was available for 446 species only as the grasses, sedges and ferns were naturally excluded, while the flower colour for a number of species is still unknown to the author.

Yellow and white are the most common colours and are exhibited respectively by 30,4 and 29,7 percent of the species (Table 3). These two colours are followed by red, mauve and pink that are far less common.

Yellow is especially common in the Leguminosae and Compositae, but is general for a large number of families.

White is also common in the Compositae, but more so in the Rubiaceae. It is of interest to note that such a large number of tree species produce white flowers, although yellow-green is also often found.

The flowering periods of the different species are incorporated in the checklist, but these could be improved upon.

TABLE 1
The most important families of the Ubisana Valley Flora.

Families	Genera Number	Species	
		Number	% of total
1. Compositae	34	75	11,4
2. Gramineae	42	70	10,6
3. Leguminosae	27	65	9,9
4. Cyperaceae	13	36	5,5
5. Liliaceae	15	30	4,6
6. Rubiaceae	20	28	4,3
7. Asclepiadaceae	14	19	2,9
8. Scrophulariaceae	14	16	2,4
9. Euphorbiaceae	12	16	2,4
10. Acanthaceae	10	13	2,0
11. Amaryllidaceae	6	12	1,8
12. Labiatae	10	11	1,7
13. Orchidaceae	8	11	1,7
14. Anacardiaceae	5	9	1,4
15. Iridaceae	7	8	1,2
16. Commelinaceae	5	8	1,2
17. Moraceae	1	8	1,2
18. Malvaceae	4	7	1,1
19. Ebenaceae	2	7	1,1

CHECK-LIST

Genera of the Pteridophyta have been arranged according to Schelpe (1969). The genera of the Spermatophyta have been arranged after Dalla Torre et Harms (Phillips, 1951). Species have been listed alphabetically.

TABLE 2
The most important genera of the Ubisana Valley Flora

Genera	Species	
	Number	% of total
1. <i>Helichrysum</i>	14	2,1
2. <i>Cyperus</i>	11	1,7
3. <i>Senecio</i>	11	1,7
4. <i>Crotalaria</i>	9	1,4
5. <i>Ficus</i>	8	1,2
6. <i>Eragrostis</i>	7	1,1

TABLE 3
Flower-colour representation in the Ubisana Valley Flora

Colour	Species	
	Number	Percentage
Yellow	136	30,4
White	133	29,7
Red	28	6,2
Mauve	27	6,0
Pink	23	5,5
Purple	20	4,5
Blue	19	4,3
Yellow-green	17	3,8
Green	15	3,4
White-green	9	2,0
Orange	8	1,8
Maroon	6	1,3
Yellow-brown	4	0,9
Grey	1	0,2
TOTAL	446	100,0

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REFERENCES

PTERIDOPHYTA

Lycopodiaceae

Lycopodium cernuum L. Common in swampy places.

Psilotaceae

Psilotum nudum (L.) Griseb. Rare. Rock crevices in stream bank forest.

Selaginellaceae

Selaginella dregei (Presl) Hieron. Pioneer on rock.

S. mittenii Bak. Uncommon. Damp soil in deep shade.

Marattiaceae

Marattia fraxinea Sm. ex Gmel. var. *salicifolia* (Schrad.) C. Chr. Rock crevices, in shade.

Osmundaceae

Osmunda regalis L. Common on swampy soil.

Cyatheaceae

Cyathea dregei Kunze. Stream bank forest.

Dennstaedtiaceae

Pteridium equilinum (L.) Kuhn. Common in grassland around forest margins.

Adiantaceae

Pityrogramma calomelanos (Sw.) Link var. *aureoflava* (Hook.) Weath. ex Bayley. Moist drainage ditch.

Adiantum capillus-veneris L. Moist, shady localities.

Pteris catoptera Kunze. Shady rock crevices.

Cheilanthes multifida (Sw.) More xerophytic rock crevices.

Pellaea calomelanos (Sw.) Link. Shallow soil on rock.

P. hastata (L.f.) Link. Shallow soil on rock.

P. quadripinata (Forsk.) Prantl. Shallow soil on rock.

P. viridis (Forsk.) Prantl. Forest floor and rocky grassland.

Lindsaeaceae

Lindsaea ensifolia (Sw.) J. Sm. Stream bank forest.

Polypodiaceae

Polypodium polypodioides (L.) Hitch. subsp. *ecklonii* (Kunze) Schelpe. Stream bank forest.

Phymatodes scolopendria (Burm.) Ching. Forest floor.

Davalliaceae

Davallia chaerophylloides (Poir.) Steud. Moist forest floor.

Nephrolepis biserrata (Sw.) Schott. Swamp forest floor. Locally dominant.

Thelypteridaceae

Thelypteris bergiana (Schlechtld.) Ching. Rock crevices, in shade.

T. dentata (Forsk.) E. St. John. Stream bank forest.

Blechnaceae

Blechnum punctulatum Sw. Moist rock crevices.

Stenochlaena tenuifolia (Desv.) Moore. Dominant on floor of swamp forest.

GYMNOSPERMAE

Stangeriaceae

Stangeria eriopus (Kunze) Nash. Grassland, uncommon.

ANGIOSPERMAE

MONOCOTYLEDONEAE

Typhaceae

Typha latifolia L. subsp. *capensis* Rohrb. Stagnant water, dominant in places. Fl. Nov. Jan.

Gramineae

- Imperata cylindrica* (L.) Beauv. Frequent on disturbed, moist soil. Fl. Nov.–May.
Eulalia villosa (Thunb.) Nees. Common in grassland. Fl. Sep.–Dec.
Coelorhachis capensis Stapf. Rocky grassland. Fl. Sep.–Mrch.
Trachypogon spicatus (L.f.) Kuntze. Rocky grassland. Fl. Nov.–Mrch.
Elyonurus argenteus Nees. Rocky grassland. Fl. Aug.–Dec.
Andropogon amplexans Nees. Rocky grassland. Fl. Jan.–Feb.
A. eucomus Nees. Swampy places. Fl. Nov.–May.
A. shirensis Hochst. var. *angustifolius* Stapf. Grassland. Fl. Feb.–May.
Vetiveria zizanioides (L.) Nash. Hedge around old kraal. Fl. May.
Schizachyrium semiberbe Nees. Common in rocky grassland. Fl. Nov.–Mrch.
Cymbopogon excavatus (Hochst.) Stapf. Forest margin and rocky grassland. Fl. Dec.–May.
C. validus Stapf ex Burtt Davy. Forest margin and rocky grassland. Fl. Dec.–May.
Hyparrhenia filipendula (Hochst.) Stapf. Sub-dominant in grassland. Fl. Sep.–May.
H. gazensis (Rendle) Stapf. Rare in grassland.
Monocymbium ceresiiforme (Nees) Stapf. Common in trampled grassland. Fl. Feb.–Mrch.
Heteropogon contortus (L.) Beauv. Rocky grassland. Fl. Jan.–Mrch.
Sorghastrum rigidifolium (Stapf) L. Chippendall. Vlei grassland. Fl. Feb.
Themeda triandra Forsk. var. *imberis* (Retz.) A. Camus. Grassland uncommon. Fl. Feb.–Mrch.
Arundinella nepalensis Trin. Stream banks. Fl. Jan.–May.
Paspalum commersonii Lam. Open grassland, frequent. Fl. Oct.–May.
P. urvellei Steud. Vlei and swamps. Fl. Oct.–Mrch.
Pseudechinolaena polystachya (H.B.K.) Stapf. Swampy places. Fl. Mrch.
Panicum aequinerve Nees. Moist places. Fl. Feb.–Mrch.
P. deustum Thunb. Climber in forest margin. Fl. Sep.–May.
P. dregeanum Nees. Moist places. Fl. Nov.–Mrch.
P. maximum Jacq. Rocky grassland, common. Fl. Nov.–May.
Aloteropsis semialata (R. Br.) Hitchc. Rocky grassland. Fl. Aug.–Nov.
Brachiaria brizantha (Hochst.) Stapf. Grassland. Fl. Nov.–May.
B. humidicola (Rendle) Schweick. Grassland, frequent. Fl. Dec.–Feb.
B. serrata (Spreng.) Stapf. Rocky grassland. Fl. Sep.–Feb.
Echinochloa pyramidalis (Lam.) Hitchc. & Chase. Stagnant water. Fl. Feb.–May.
Sacciolepis curvata (L.) Chase. Forest floor, common. Fl. Feb.
Digitaria diagonalis (Nees) Stapf. Rocky grassland. Fl. Feb.
D. eriantha Steud. Sub-dominant in grassland. Fl. Feb.–Apr.
D. longiflora (Retz.) Pers. Rocky grassland, common. Fl. Nov.–Mrch.
D. macroglossa Henr. Grassland, common. Fl. Feb.–May.
D. pentzii Stent. Grassland, rare. Fl. Feb.
D. ternata (Hochst.) Stapf. Disturbed places. Fl. Dec.
Acroceras macrum Stapf. Vlei grassland, uncommon. Fl. Dec.
Rhynchelytrum repens (Willd.) C. E. Hubb. Disturbed grassland and fallow lands. Fl. Sep.–Jul.
R. setifolium (Stapf) Chiov. Grassland, rare. Fl. Feb.–May.
Oplismenus hirtellus (L.) Beauv. Forest floor, common. Fl. Feb.–May.

- Setaria chevalieri* Stapf ex Stapf & C. E. Hubb. Stream bank forest, common. Fl. Feb.–Aug.
S. rigida Stapf. Swamps. Fl. Feb.
S. sphacelata (Schumach.) Stapf & C. E. Hubb. ex M. B. Moss. Grassland, frequent. Fl. Aug.–May.
Stenotaphrum secundatum (Walt.) Kuntze. Pioneer in disturbed places. Fl. Sep.–Mrch.
Olyra latifolia L. Climber in swamp forest. Fl. Nov.–Mrch.
Leersia hexandra Sw. Swampy places, common. Fl. Dec.–Mrch.
Ehrharta erecta Lam. var. *natalensis* Stapf. Moist places. Fl. Sep.–Nov.
Aristida congesta subsp. *barbicollis* (Trin. & Rupr.) de Wint. Xerophytic, rocky, grassland. Fl. Feb.–May.
A. junciformis Trin. & Rupr. Dominant in grassland. Fl. Feb.–May.
Sporobolus africanus (Poir.) Robyns & Tournay. Grassland, common. Fl. Feb.–May.
S. pyramidalis Beauv. Rocky grassland, common. Fl. Feb.–Mrch.
Tristachya hispida (L.f.) K. Schum. Sub-dominant in grassland. Fl. Nov.–May.
Trichopteryx dregeana Nees. Moist places. Fl. Feb.–May.
Cynodon dactylon (L.) Pers. Trampled veld. Fl. Sep.–May.
Chloris gayana Kunth. Grassland. Fl. Nov.–May.
C. pycnothrix Trin. Disturbed places. Fl. Jan.–Mrch.
Tripogon abyssinicus Nees. Xerophytic pioneer on shallow soil.
Eleusine africana Kennedy O'Byrne. Disturbed places. Fl. Oct.–Feb.
Dactyloctenium australe Steud. Below trees in savannah veld, common. Fl. Aug.–Nov.
Phragmites mauritianus Kunth. Stream bed and stagnant water, dominant. Fl. Mrch.–May.
P. australis (Cav.) Trin. ex Steud. Stagnant swamp, dominant. Fl. Feb.–Jul.
Eragrostis capensis (Thunb.) Trin. Sub-dominant in grassland. Fl. Oct.–Mrch.
E. chapelieri (Kunth) Nees. Grassland, uncommon. Fl. Nov.–Mrch.
E. cilianensis (All.) Lutati. Vlei grassland. Fl. Apr.
E. curvula (Schr.) Nees. Grassland, common. Fl. Oct.–May.
E. lappula Nees var. *lappula*. Vlei grassland. Fl. Feb.
E. pilosa (L.) P. Beauv. Pioneer on disturbed ground. Fl. Oct.–May.
E. racemosa (Thunb.) Steud. Common in rocky grassland. Fl. Oct.–Mrch.

Cyperaceae

- Ascolepis capensis* Ridl. Swampy soil. Fl. Sep.–Oct.
Cyperus albostratus Schrad. Forest floor, common. Fl. Sep.–Dec.
C. corymbosus Rottb. Disturbed places. Fl. Feb.
C. distans L.f. Swampy places. Fl. Dec.
C. immensus C.B. Cl. Dominant in swamps. Fl. Sep.–Mrch.
C. isocladius Kunth. Pioneer of water pools. Fl. Sep.–Feb.
C. latifolius Poir. Swamps, sub-dominant. Fl. Dec.–May.
C. leptocladius Kunth. Forest floor. Fl. Dec.
C. longus L. Moist, rocky places. Fl. Nov.
C. obtusiflorus Vahl. Important component of trampled grassland. Fl. Oct.–Mrch.
C. papyrus L. Dominant in "papyrus" swamps. Fl. Jan.–May.
C. rupestris Kunth. Xerophytic pioneer on shallow soil. Fl. Oct.–Dec.
Pycreus macranthus C.B. Cl. Swampy places. Fl. Jul.
P. mundtii Nees. Moist places. Fl. Jul.–Oct.
P. polystachyos Beauv. Moist places. Fl. Jan.–Apr.
Mariscus capensis Schrad. Vlei grassland. Fl. Sep.–Jan.
M. dregeanus Kunth. Swampy forest floor. Fl. Oct.–Apr.
M. macropus C.B. Cl. Moist, shady places. Fl. Nov.–Feb.

- M. sieberianus* Nees. Moist places. Fl. Aug.–Dec.
M. vestitus C.B. Cl. Xerophytic pioneer on shallow soil. Fl. Sep.–Dec.
Kyllinga erecta K. Schum. Rocky grassland. Fl. Oct.–Apr.
K. elatior Kunth. Moist places. Fl. Nov.–Feb.
Fuirena hirsuta (Berg.) P. L. Forbes. Stream banks. Fl. Aug.–Apr.
Scirpus prolifer Rottb. Swampy soil. Fl. Aug.
Frimbristylis complanata (Retz.) Link. Swampy soil. Fl. Sep.–Dec.
F. dichotoma (L.) Vahl. Grassland. Fl. Nov.–Apr.
F. ferruginea (L.) Vahl. Vlei grassland. Fl. Dec.–Apr.
F. hygrophylla Gordon-Gray. Swampy soil. Fl. Aug.–Apr.
F. ovata (Burm. f.) Kern. Vlei and open grassland. Fl. Dec.–Jul.
Bulbostylis contexta (Nees) Gordon-Gray. Abundant in grassland. Fl. Aug.–Mrch.
Rhynchospora corymbosa (L.) Britton. Dominant in sedge swamp. Fl. Sept.–Mrch.
Scleria angusta Nees. Stream banks. Fl. Sep.–Apr.
S. natalensis C.B. Cl. Grassland. Fl. Nov.–Apr.
S. welwitschii C.B. Cl.
Schoenoxiphium sparteum Kük. var. *lehmannii* Kük. Swampy soil. Fl. Sep.–Jan.
Carex spicata-paniculata C.B. Cl. Stream bank and swamp. Fl. Oct.–May.

Palmae

- Phoenix reclinata* Jacq. Tree. Stream bank and swamp forest, common.
Hyphaene crinita Gaertn. Shrub. Rocky localities in grassland.

Araceae

- Zantedeschia aethiopica* (L.) Spreng. Herb. Swampy soil, common. Infl. white, Sep.–May.
Stylochiton natalense Schott. Herb. Mesophytic forest floor, uncommon. Infl. green, Oct.–Dec.

Flagelariaceae

- Flagelaria guineensis* Schum. Climber in mesophytic forest, frequent. Fl. Nov.

Xyridaceae

- Xyris anceps* Lam. Herb. Swampy soil. Fls. yellow, Oct.–Jan.

Eriocaulaceae

- Eriocaulon ruhlandii* Schinz. Small herb. Swampy soil, rare. Fls. white, Nov.–Feb.

Commelinaceae

- Commelina africana* L. Trailing herb. Floor of stream bank forest. Fls. yellow, Aug.
C. africana var. *krebsiana* Kunth. Trailing herb. Moist soil. Fls. yellow, Sep.
C. eckloniana Kunth. Herb. Grassland and forest margin. Fls. blue, Sep.–Feb.
Aneilema aequinoctiale (Beauv.) Kunth. Trailing herb. on forest floor. Fls. yellow, Nov.–May.
A. hockii De Wild. Trailing herb on forest floor. Fls. blue, Dec.
A. schlechteri K. Schum. Climber in stream bank forest.
Murdannia nudiflora (L.) Brenan. Herb. Swampy soil. Fls. blue, Jul.
Cyanotis speciosa (L.f.) Hassk. Herb. Rocky grassland, common. Fls. mauve, Oct.–Feb.
Floscopa glomerata Hassk. Herb. Swampy soil. Fls. pale blue, Mrch.

Juncaceae

- Juncus kraussii* Hochst. Herb. Stream banks and flood sands. Fl. Nov.–Jan.
J. lomtophyllus Spreng. Herb. Swampy soil, frequent. Fl. Sep.–Mrch.

Liliaceae

- Anthericum saundersiae* Bak. Herb. Stream bank forest. Fls. white, Jul.–Sep.
Trachyandra asperata Kunth. Herb. Grassland. Fls. white, Sep.–Oct.
T. gerrardii (Bak.) Oberm. Herb in grassland. Fls. white, Sep.–Oct.
T. saltii (Bak.) Oberm. Succulent herb in rocky grassland. Fls. white, Jul.–Sep.
Chlorophytum krookianum Zahlbr. Herb in vlei grassland. Fls. white, Oct.–Mrch.
Eriospermum cooperi Bak. Herb in grassland. Fls. white-green, Sep.–Nov.
Kniphofia laxiflora Kunth. Herb in vlei grassland and swamps. Fls. yellow, May–Aug.
Aloe arborescens Mill. Succulent shrub. Rocky places. Fls. red, Jul.–Aug.
A. cooperi Bak. Succulent. Marshy places. Fls. orange-green, Dec.–Feb.
A. marlothii Berger. Succulent. Rocky grassland, common. Fls. yellow, green or red, Jul.–Aug.
A. saponaria (Ait.) Haw. Succulent. Grassland, common. Fls. red, Jul.
A. umfoloziensis Reyn. Succulent. Grassland, Fls. red, Jul.
Albuca setosa Jacq. Herb in grassland. Fls. white, Jul.–Aug.
Drimia alta R. A. Dyer. Herb in grassland. Fls. purple, Sep.–Oct.
Dipcadi marlothii Engl. Herb in grassland. Fls. green, Dec.–Feb.
D. viride (L.) Moench. Herb in grassland. Fls. brown-yellow, Dec.–Feb.
Ledebouria cooperi (Hook. f.) Jessop. Herb in grassland. Fls. pink-mauve, Aug.–Oct.
L. floribunda (Bak.) Jessop. Herb in rocky grassland. Fls. maroon, Aug.–Oct.
L. sp. Herb in rocky grassland. Fls. Oct.
Scilla natalensis Planch. Herb in grassland. Fls. blue, Aug.–Oct.
S. nervosa (Burch.) Jessop. Herb in rocky grassland. Fls. white, Sep.–Nov.
Rimipopsis maculata Lindl. Herb on forest floor. Fls. white-green, Sep.–Nov.
Dracaena hookeriana K. Koch. Shrub in stream bank forest, frequent. Fls. white, Nov.–Dec.
Sansevieria guineensis (L.) Willd. Woody herb in scrub thicket.
Asparagus densiflorus (Kunth) Jessop. Shrub in grassland scrub.
A. calceatus L. Climber in mesic forest. Fls. white, Oct.–Nov.
A. macowanii Bak. var. *zuluensis* (N.E. Br.) Jessop. Shrub in rocky grassland. Fls. white, Sep.
A. racemosus Willd. Shrub in rocky grassland.
A. setaceus (Kunth) Jessop. Climber in mesic forest.
Smilax kraussiana Meisn. Climber in forest, common. Fl. Dec.

Amaryllidaceae

- Haemanthus albiflos* Jacq. Herb in stream bank forest. Fls. white, Aug.
H. albomaculatus Bak. Herb in stream bank forest and rock crevices. Fls. white, Aug.
H. katherinae Bak. Herb on swamp forest floor. Fls. red, Aug.
Apodolirion buchananii Bak. Herb in grassland. Fls. white, Jul.
Crinum macowanii Bak. Herb in vlei grassland. Fls. pale pink, Sep.–Oct.
Cyrtanthus breviflorus Harv. Herb in vlei grassland. Fls. yellow, Nov.–Dec.
C. contractus N.E. Br. Herb in grassland. Flowers appear after veld fires; red, Aug.–Sep.
Hypoxis argentea Harv. Herb in grassland, common. Fls. yellow, Jul.–Sep.
H. filiformis Bak. Small herb in grassland. Fls. yellow, Aug.
H. gerrardii Bak. Herb in stream bank forest. Fls. yellow, Aug.
H. rigidula Bak. Herb in rocky grassland. Fls. yellow, Oct.–May.
H. rooperi S. Moore. Herb in rocky grassland. Fls. yellow, Dec.–Apr.

Dioscoreaceae

- Dioscorea cotinifolia* Kunth. Climber in mesic forest. Fls. green-yellow, Sep.–Nov.
D. dregeana (Kunth) Dur. & Schinz. Climber in mesic forest. Fl. Oct.–Dec.

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D. diversifolia Griseb. Climber in mesic forest.

D. sylvatica Eckl. Climber in mesic forest. Fls. yellow-green, Nov.-Apr.

Iridaceae

Dietes vegeta (L.) N.E. Br. Herb in stream bank forest. Fls. white, Oct.-Dec.

Aristea cognata N.E. Br. Herb in rocky grassland. Fls. blue, Oct.

A. woodii N.E. Br. Herb in grassland, common. Fls. deep blue, Sep.-Nov.

Hesperantha baurii Bak. Herb in grassland. Fls. pale yellow, Apr.

Dierama elatum N.E. Br. Herb in grassland. Fls. white, Nov.-Feb.

Crocasmia aurea Planch. Herb in stream bank forest. Fls. orange, Jan.-Mrch.

Gladiolus longicollis Bak. Herb in grassland. Fls. creamy-yellow, Oct.

Lapeirousia laxa (Thunb.) N.E. Br. Herb in grassland. Fls. red, Jul.-Nov.

Musaceae

Strelitzia nicolai Regel & Koern. Dominant in mesophytic forest. Fls. white-blue, Aug.-Dec.

Orchidaceae

Stenoglottis longifolia Hook f. Herb in stream bank forest. Fls. pink, Apr.-Jun.

Habenaria caffra Schltr. Herb in swampy places. Fls. green-white, Dec.

H. epipactidea Reichb. f. Herb in grassland. Fls. white, Dec.

Bonatea boltonii Bolus. Herb on damp soil. Fls. white-green, Nov.-Dec.

Satyrium longicauda Lindl. Herb in grassland. Fls. white-pink, Nov.

Disa polygonoides Lindl. Herb on swampy soil. Fls. yellow or red, Sep.-March.

Cf. *Polystachya* sp. Herb, growing in shade on rock.

Eulophia foliosa (Lindl.) Bolus. Herb on swampy soil. Fls. yellow-green, Oct.

E. parviflora (Lindl.) Hall. Herb on damp soil. Fls. yellow-brown, May-Aug.

E. petersii Reichb. f. Succulent herb in rocky, xerophytic grassland. Fls. green-brown, Nov.-Jan.

Cyrtorchis arcuata (Lindl.) Schltr. Epiphyte on trees, especially *Syzygium cordatum*. Fls. white, Nov.-Mrch.

DICOTYLEDONEAE

Myricaceae

Myrica serrata Lam. Shrub or tree in swamp forest, common. Fl. Jul.

Ulmaceae

Trema orientalis (L.) Blume. Tree in mesic forest. Fl. Nov.-Jan.

Chaetacme aristata Planch. Tree in mesic forest.

Moraceae

Ficus burtt-davyi Hutch. Tree in mesic forest. Fl. Jul.-Aug.

F. capensis Thunb. Tree, locally dominant in swamp forest. Fl. Sep.-Oct.

F. capreaefolia Del. Shrub on flood sands and stream banks. Fl. Mrch.-May.

F. craterostoma Warb. ex Mildbr. & Burrett. Tree in mesic forest, starting off as a hemi-epiphyte on other trees. Fl. Oct.

F. ingens (Miq.) Miq. Chasmophytic tree. Fl. Aug.-Jan.

F. natalensis Hochst. Tree in mesic forest, usually starting off as hemi-epiphyte on other trees. Fl. Nov.

F. petersii Warb. Tree in mesic forest. Fl. Sep.-Oct.

F. sonderi Miq. Chasmophytic tree. Fl. Sep.-Nov.

Urticaceae

Urera cameroonensis Wedd. Climber in kloof forest. Fl. Apr.

Australina acuminata Wedd. Herb on fallow land. Fl. Dec.

Proteaceae

Protea multibracteata Phill. Shrub in grassland on south facing slope of the valley. Fls. pink-white, Nov.-May.

Santalaceae

Thesium costatum A.W. Hill. Herb in grassland. Fls. white, Sep.-Nov.

T. gracilentum N.E. Br. Herb in grassland. Fls. white, Aug.-Sep.

T. natalense Sond. Herb in grassland. Fls. white, Aug.-Sep.

T. virens E. Mey. Herb in vleigraasland. Fls. Dec.-Jan.

Olacaceae

Ximenia caffra Sond. Tree in stream bank forest. Fl. Aug.-Oct.

Polygonaceae

Polygonum pulchrum Blume. Herb in swampy localities. Fls. white, Jan.-Mrch.

P. salicifolium Brouss. Herb in swamp forest. Fls. pink, Sep.-Jan.

Oxygonum sinuatum (Hochst. & Steud. ex Meisn.) Damm. Herb in mesic forest. Fls. white, Sep.-Nov.

Chenopodiaceae

Chenopodium ambrosioides L. Weed on fallow land. Fl. Mrch.

C. murale L. Weed in disturbed places. Fl. Sep.-Dec.

Amarantaceae

Amaranthus spinosus L. Weed on disturbed soil. Fl. Aug.-Sep.

Pupalia atropurpurea Moq. Herbaceous climber in stream bank forest. Fl. Nov.-Jan.

Achyranthes aquatica R. Br. Herb in disturbed places. Fl. Sep.-Jun.

Achyroopsis avicularis (E. Mey. ex. Moq.) Hook. f. Herb in stream bank forest. Fl. Mrch.-Jun.

A. leptostachya Hook. f. Herb on flood sands of stream banks. Fl. Sep.-Jun.

Gomphrena celosioides Mart. Weed in disturbed places. Fl. Sep.-Feb.

Aizoaceae

Aizoon glinoides L.f. Succulent herb in rocky grassland. Fls. light-green, Nov.-Mrch.

Portulacaceae

Portulaca quadrifida L. Succulent herb on shallow soil. Fls. yellow, Nov.

Caryophyllaceae

Stellaria media (L.) Vill. Herb on moist soil. Fls. white, Aug.-Oct.

Silene burchellii Otth. Herb in grassland. Fls. white, Nov.-Mrch.

Nymphaeaceae

Nymphaea capensis Thunb. Pioneer in water. Fls. blue, Sep.-Feb.

Menispermaceae

Cissampelos mucronata A. Rich. Climber in forest margin. Fl. Nov.

C. torulosa E. Mey. ex Harv. Climber in forest, common.

Tinospora caffra (Miers) Troupin. Climber in forest. Fls. yellow-green, Dec.-Feb.

Anonaceae

- Uvaria caffra* E. Mey. ex Sond. Climber in forest. Fl. Dec.
Popowia caffra (Sond.) Benth. Shrub in mesic forest, common. Fl. Sep.
Anona senegalensis Pers. Tree in rocky grassland.

Cruciferae

- Lepidium bonariense* L. Weed of disturbed places. Fl. Sep.-Nov.
Coronopus didymus (L.) Sm. Weed of disturbed places. Fl. Aug.-Dec.

Capparidaceae

- Maerua cafra* (DC.) Pax. Tree in mesic forest. Fls. green, Sep.

Droseraceae

- Drosera burkeana* Planch. Herb on swampy soil, common. Fls. white-pink, Aug.-Feb.

Crassulaceae

- Kalanchoe rotundifolia* Haw. Succulent herb in rocky grassland. Fls. orange-red, Sep.-May.
Crassula ericoides Haw. Succulent pioneer on shallow soil. Fl. Mrch.
C. heterotricha Schinz. Succulent pioneer on shallow soil. Fls. white, Apr.-May.
C. lineolata Dryand. Herb in shady, moist places. Fls. white, Sep.-May.
C. rubicunda E. Mey. Succulent herb in grassland. Fls. deep red, Apr.-Aug.

Rosaceae

- Rubus rigidus* Sm. Straggling shrub of forest margin. Fls. white, Aug.-Nov.

Leguminosae

- Albizia adianthifolia* (Schumach.) W. F. Wight. Dominant tree in mesic forest. Fls. white-green, Sep.
Acacia borleae Burt Davy. Tree in grassland scrub.
A. caffra (Thunb.) Willd. Tree in scrub forest, common. Fls. creamy-yellow, Aug.-Oct.
A. karroo Hayne. Tree in mesic forest, frequent in places. Fls. yellow, Oct.-Jan.
A. robusta Burch. Tree in a stream bank forest. Fls. pale yellow, Aug.-Sep.
Dichrostachys cinerea (L.) Wight & Arn. subsp. *cinerea*. Shrub in scrub forest. Fls. pink-yellow, Oct.-Jan.
Elephantorrhiza elephantina (Burch.) Skeels. Low shrub in rocky grassland. Fls. pale yellow, Sep.-Oct.
Entada spicata (E. Mey.) Druce. Climber in mesic forest.
Cassia biensis (Steyaert) Mendonca & Torre. Small shrub in grassland. Fls. bright yellow, Oct.-Nov.
C. corymbosa Lam. Shrub in forest margin. Fls. yellow, May.
C. mimosoides L. Small shrub in grassland. Fls. pale yellow, Aug.-Oct.
Caesalpinia decapetala (Roth.) Als. Straggling shrub. Fls. yellow, Jul.-Oct.
Crotalaria capensis Jacq. Shrub on flood sands. Fls. yellow, Sep.-May.
C. distans Benth. Small shrub in grassland. Fls. yellow, Feb.
C. globifera E. Mey. Small shrub in grassland. Fls. yellow, Sep.-Feb.
C. lanceolata E. Mey. Woody herb in grassland. Fls. orange-yellow, Aug.-Feb.
C. mucronata Desv. Woody herb on stream banks.
C. natalensis Bak. f. Shrub in grassland. Fls. yellow, Dec.-May.
C. natalitia Meissn. Woody herb in grassland. Fls. yellow, Sep.
C. striata DC. Small shrub on flood sands. Fls. yellow, Mrch.
C. vasculosa Wall. (First record for South Africa). Woody herb in grassland. Fls. yellow, Jan.-Apr.

- Argyrolobium rupestre* (E. Mey.) Walp. Herb in grassland, common. Fls. yellow, Oct.–Mrch.
A. tomentosum (Andr.) Druce. Small shrub on stream banks. Fls. yellow, Apr.–May.
Indigofera alternans DC. Herb in grassland. Fls. red, Sep.–May.
I. heterophylla Thunb. Woody herb in grassland. Fls. maroon-red, Aug.–May.
I. hilaris Eckl. & Zeyh. Herb in grassland. Fls. maroon-red, Sep.–May.
I. sanguinea N.E. Br. Woody herb in grassland, common. Fls. maroon-red, Sep.–Mrch.
I. tristis E. Mey. Woody herb in grassland. Fls. red-purple, Sep.–May.
Tephrosia elongata E. Mey. Herb in grassland. Fls. yellow, pink or pink-brown, Oct.–Jul.
T. grandiflora (Ait.) Pers. Woody herb in grassland. Fls. mauve, Oct.–Mrch.
T. glomeruliflora Meisn. Woody herb in grassland. Fls. light purple, Mrch.–Sep.
T. longipes Meisn. Herb in grassland. Fls. yellow, Oct.–Apr.
T. macropoda (E. Mey.) Harv. Decumbent herb in grassland. Fls. mauve, Nov.–Dec.
T. polystachya E. Mey. Woody herb in grassland. Fls. mauve, Aug.–Mrch.
Sesbania bispinosa (Jacq.) W. F. Wight var. *bispinosa*. Tall annual woody herb of disturbed places. Fls. yellow with purple spots, Apr.–Sep.
Aeschynomene micrantha DC. Prostrate herb in grassland. Fls. orange-yellow, Oct.–Dec.
Zornia capensis Pers. Prostrate herb in grassland, common. Fls. yellow, Aug.–Apr.
Desmodium dregeanum Benth. Prostrate herb in grassland. Fls. blue or pink, Nov.–Feb.
D. hirtum Guill. & Perr. Prostrate herb in grassland. Fls. blue-purple, Jan.–Mrch.
D. canum (J. F. Gmel.) Schinz & Thell. Prostrate herb in grassland. Fls. purple-red, Sep.–Jan.
Pseudarthria hookeri Wight & Arn. Woody herb in forest margin. Fls. maroon, Sep.–Feb.
Alysicarpus vaginalis (L.) DC. Prostrate herb in grassland. Fls. red, Dec.
Dalbergia armata E. Mey. Liana in stream bank forest, frequent. Fls. white, Sep.
D. obovata E. Mey. Liana in swamp forest. Fls. white, Oct.
Abrus fruticulosus Wall. ex Wight & Arn. Prostrate herb in grassland. Fls. mauve, Mrch.
A. precatorius L. Climber in grassland scrub. Fls. purple, Nov.
Glycine javanica L. Climber in stream bank forest. Fls. white, Sep.–Mrch.
Erythrina humeana Spreng. Shrub in vlei grassland. Fls. red, Dec.–Jan.
E. lysistemon Hutch. Tree in mesic forest. Fls. red, May–Sep.
Canavalia bonariensis Lindl. Liana in swamp forest. Fls. blue-purple, Oct.–Feb.
Rhynchosia nervosa Benth. & Harvey. Prostrate herb in rocky grassland. Fls. yellow, Oct.–Dec.
R. sordida (E. Mey.) Schinz. Woody herb in grassland. Fls. yellow, Mrch.–May.
R. stenodon Bak. f. Climber in forest margin. Fls. yellow, Apr. (Typical aspect dominant in grassland scrub and along forest margins during April).
R. totta (Thunb.) DC. Prostrate herb in rocky grassland. Fls. yellow, Oct.–Apr.
Eriosema cordatum E. Mey. Prostrate herb in grassland. Fls. yellow, Oct.–Mrch.
E. distinctum N.E. Br. Woody herb in vlei grassland. Fls. yellow, Nov.
E. parviflorum E. Mey. Woody herb in grassland. Fls. yellow, Jul.–Apr.
E. psoraleoides (Lam.) G. Don. Woody herb in grassland. Fls. yellow, Aug.–Sep.
E. salignum E. Mey. Herb in grassland. Fls. yellow, Aug.–Nov.
E. squarrosus Walp. Herb in grassland. Fls. orange-yellow, Oct.
Vigna triloba Walp. Prostrate herb in moist grassland. Fls. blue-purple, Jul.–Dec.
V. vexillata (L.) Benth. var. *hirta* (Hook.) Bak. Climber in forest margin. Fls. purple, Oct.–Nov.
Sphenostylis angustifolia Sond. Herb in grassland. Fls. purple, Sep.
S. marginata E. Mey. Prostrate herb in grassland. Fls. mauve, Sep.–Nov.
Dolichos axillaris E. Mey. Climber in forest margin. Fls. pale yellow, Sep.–Dec.

Geraniaceae

- Pelargonium luridum* (Andr.) Sweet. Herb in grassland, common. Fls. pink, Oct.–May.

Oxalidaceae

- Oxalis corniculata* L. Weed on sandy soil. Fls. yellow, Aug.-Jan.
O. smithiana Eckl. & Zeyh. Herb in grassland. Fls. pink-mauve, Aug.-Jan.

Rutaceae

- Fagara capensis* Thunb. Tree in stream bank forest. Fls. creamy yellow, Nov.-Dec.

Burseraceae

- Commiphora woodii* Engl. Tree in mesic forest. Fls. yellow-green, Oct.

Meliaceae

- Turraea obtusifolia* Hochst. Shrub in mesic forest. Fls. white, sweet scented, Nov.
Ekebergia capensis Sparrm. Tree in mesic forest. Fls. grey, Aug.-Oct.
E. pterophylla (C.DC.) Hofmeyr. Low tree in stream bank forest. Fls. white, Sep.
Trichilia emetica Vahl. Tree in mesic forest. Fls. yellow-green, Aug.-Oct.

Polygalaceae

- Polygala capillaris* E. Mey. Small herb in vlel grassland. Fls. white, Dec.-Apr.
P. gerrardii Chod. Herb in grassland. Fls. purple-red, Feb.
P. uncinata E. Mey ex Meisn. Woody herb in rocky grassland. Fls. purple-green, Aug.-Jan.
P. hottentotta Presl. Woody herb in grassland. Fls. green-yellow, Nov.-May.
P. producta N.E. Br. Woody herb in vlel grassland. Fls. mauve, Nov.
P. virgata Thunb. Shrub in forest margin. Fls. mauve, Aug.-Dec.

Euphorbiaceae

- Phyllanthus glaucophyllus* Sond. Herb in grassland. Fl. Sep.
P. reticulatus Poir. Liana in grassland scrub. Fl. Nov.-May.
Antidesma venosum E. Mey. ex. Tul. Sub-dominant tree in mesophytic forest. Fl. Nov.
Bridelia micrantha (Hochst.) Baill. Dominant tree in swamp forest. Fl. Sep.
Adenocline pauciflora Turcz. Herb in shady localities. Fl. Aug.
Macaranga capensis (Baill.) Sim. Tree in swamp forest. Fl. Jun.
Acalypha ecklonii Baill. Prostrate herb on forest floor. Fl. Nov.-Jul.
A. peduncularis E. Mey. ex Meisn. Herb in grassland, Fls. red, Sep.-Nov.
A. petiolaris Hochst. Herb on sandy soil. Fls. reddish, Sep.-Nov.
Ctenomeria capensis (Thunb.) Harv. ex Sond. Climber in stream bank forest. Fls. yellow-green, Sep.-Oct.
Ricinus communis L. Shrub or tree in stream bank scrub. Fl. Oct.-Feb.
Dalechampia kirkii Prain. Climber in mesic forest. Fls. yellow-green, Nov.-Dec.
Clutia abyssinica Jaub. & Spach var. *abyssinica*. Shrub in grassland. Fl. Jul.-Nov.
Sapium ellipticum (Hochst. ex Krauss) Pax. Tree in mesic forest. Fl. Sep; fruit Feb.
Euphorbia hirta L. Herb in grassland. Fls. whitish, Aug.-Dec.
E. hypericifolia L. Weed of disturbed places. Fl. Oct.

Anacardiaceae

- Sclerocarya caffra* Sond. Tree in mesic forest. Fls. red, Sep.
Harpephyllum caffrum Bernh. ex Krauss. Tree in mesic forest. Fl. Jul.; fruit Oct.
Protorhus longifolia (Bernh.) Engl. Tree in mesic forest. Fl. Jul.; fruit Sep.
Ozoroa paniculosa (Sond.) R. & A. Fernandes. Tree in rocky grassland. Fls. white, Oct.-Nov.
Rhus fraseri Schonl. in grassland. Fl. Feb.
R. macowanii Schonl. Shrub in grassland.
R. nebulosa Schonl. Liana in mesic and hydric forest, common. Fl. Mrch.

R. rehmanniana Engl. Low tree in grassland scrub. Fl. Jan.

R. rupicola Wood & Evans. Low shrub in grassland scrub.

Celastraceae

Maytenus heterophylla (Eckl. & Zeyh.) N. Robson. Low tree in kloof forest. Fls. white, Aug.

M. nemorosa (Eckl. & Zeyh.) Marais. Shrub. Fls. white, May.

M. senegalensis (Lam.) Exell. Tree in rocky places. Fls. white, May–Aug.

Cassine eucleaeformis (Eckl. & Zeyh.) Kuntze. Tree in mesophytic forest. Fls. white-green, Mrch.

Hippocrateaceae

Salacia kraussii (Harv.) Harv. Small shrub in grass veld. Fls. yellow, Sep.–Oct.

Icacinaeae

Cassinopsis tinifolia Harv. Tree in mesophytic forest. Fls. white, Aug.–Nov.

Apodytes dimidiata E. Mey. ex Arn. Tree in mesophytic forest. Fls. white, Mrch.–Jan.

Sapindaceae

Cardiospermum halicacabum L. Climber in mesophytic forest. Fls. white, Aug.–Nov.

Allophylus melanocarpus (Sond.) Radlk. Shrub in mesophytic forest. Fl. Jan.

Deinbollia oblongifolia (Sond.) Radlk. Tree in mesophytic forest. Fls. yellow-green, Apr.–May.

Hippobromus pauciflorus (L.f.) Radlk. Shrub in mesophytic forest. Fls. white, Aug.

Melianthaceae

Bersama lucens Hochst. Tree in kloof forest. Fls. green-yellow, Mrch.

Rhamnaceae

Ziziphus mucronata Willd. Tree in mesophytic forest. Fl. Nov.

Scutia myrtina (Burm. f.) Kurz. Liana in stream bank forest. Fl. Feb.

Heteropyxidaceae

Heteropyxis natalensis Harv. Tree in stream bank forest. Fls. yellow-green, Mrch.

Vitaceae

Rhoicissus rhomboidea (E. Mey. ex Harv.) Planch. Liana in mesophytic forest. Fls. green, Nov.

Roicissus tomentosa (Lam.) Wild & Drumm. Liana in forest.

R. tridentata (L.f.) Wild & Drumm. Shrub in rocky grass veld. Fls. yellow-green, Sep.

Cissus quadrangularis L. Climber in forest margin. Fls. creamy yellow, Dec.

Cyphostemma cirrhosum (Thunb.) Desc. Creeper in grass veld scrub. Fls. yellow-green, Dec.

C. natalitius (Szyszyl.) Codd. Creeper in grass veld scrub. Fls. yellow, Sep.

Tiliaceae

Grewia occidentalis L. Tree in mesophytic forest. Fls. mauve, Aug.–May.

Truimfetta pilosa Roth var. *effusa* (E. Mey. ex Harv.) Wild. Woody herb in scrub. Fls. yellow, Mrch.

T. rhomboidea Jacq. Woody herb in scrub. Fls. yellow, Oct.–Mrch.

Abutilon mauritianum (Jacq.) Medik. Woody herb in the forest margin. Fls. yellow-orange, Mrch.

Malvestrum coromandelianum (L.) Garcke. Herb of disturbed places. Fls. yellow-orange, Sep.–Nov.

Sida cordifolia L. Woody herb of the forest margin. Fls. pale yellow, Mrch.

S. pseudocordifolia Hochr. Woody herb of the forest margin. Fls. yellow.

S. rhombifolia L. Woody weed on disturbed soil. Fls. yellow, Aug.–Nov.

Annotated Check-list to Flora of Übisana

Hibiscus aethiopicus L. Herb in grass veld. Fls. yellow, Oct.-Jan.

H. trionum L. Herb in grass veld. Fls. yellow, May-Aug.

Sterculiaceae

Melhania didyma Eckl. & Zeyh. Woody herb in grass veld. Fls. yellow, Nov.-May.

Dombeya burgessiae Gerr. ex Harv. Shrub of grass veld scrub and forest margin. Fls. rose pink, May.

D. cymosa Harv. Tree in mesophytic forest.

Waltheria indica L. Woody herb in grass veld. Fls. yellow, Dec.

Ochnaceae

Ochna arborea Burch. ex DC. Shrub in stream bank forest. Fls. yellow, Sep.

O. pulchra Hook. Shrub in stream bank forest. Fls. yellow, Aug.

Guttiferae

Hypericum aethiopicum Thunb. subsp. *sonderi* (Bredell) N. Robson. Herb in grassland. Fls. yellow, Sep.-Apr.

H. lalandii Choisy. Herb of marshland. Fls. yellow, Nov.-Dec.

Garcinia livingstonei T. Anders. Tree in rocky grassland. Fruit Nov.

Violaceae

Rinorea ilicifolia (Welw. ex Oliv.) Kuntze. Tree in swamp forest. Fruit Sep.

Flacourtiaceae

Rawsonia lucida Harv. & Sond. Tree in mesophytic forest. Fls. white, Sep.-Nov.

Oncoba spinosa Forsk. Tree in mesophytic forest. Fls. white, Sep.

Gerrardina foliosa Oliv. Tree of the forest margin. Fl. Feb.-Apr.

Trimeria rotundifolia (Hochst.) Gilg. Tree in mesophytic forest. Fl. Sep.-Oct.

Dovyalis rhamnoides (DC.) Harv. Shrub in kloof forest. Fls. red, Sep.

Passifloraceae

Adenia gummifera (Harv.) Harms. Liana in swamp forest. Fl. Nov.-Dec.

Achariaceae

Ceratiosicyos laevis (Thunb.) A. Meeuse. Climber in swamp forest. Fls. green, Oct.

Cactaceae

Rhipsalis baccifera (J. S. Mueller) Stearn. Epiphyte in forest. Fls. creamy yellow, Aug.

Thymelaeaceae

Peddiea africana Harv. Lower stratum tree in mesophytic forest. Fls. light green, Oct.-Jul.

Lasiosiphon anthylloides Meisn. Woody herb of the grassland. Fls. yellow, Jul.-Nov.

L. splendens Endl. Woody herb of grassland. Fls. yellow, Jul.-Nov.

Arthrosolen calocephalus (Meisn.) C. A. Mey. Woody herb of the grassland. Fls. white, Aug.-Mrch.

Englerodaphne ovalifolia (Meisn.) Phill. Shrub of mesophytic forest. Fls. yellow-green, Sep.

Lythraceae

Nesaea tolypobotrys Koehne. Herb of marshland. Fls. pink, Nov.

Myrtaceae

Psidium guajava L. Tree in grassland scrub. Fls. white, Oct.

Eugenia natalitia Sond. Shrub of the forest margin. Fls. white, Sep.-Oct.

Syzygium cordatum Hochst. ex Harv. & Sond. Dominant tree along stream banks. Fls. white, Sep.–Oct.

S. guineense (Willd.) DC. Tree of stream bank forest. Fls. white, Oct.

Eucalyptus maculata Hook. A grove of trees planted by the local inhabitants. Fls. white.

Melastomataceae

Dissotis canescens (Grah.) Hook. f. Woody herb on swampy soil. Fls. pink, Aug.–Mrch.

D. phaeotricha (Hochst.) Triana. Herb on swampy soil. Fls. pink, Dec.

Araliaceae

Cussonia natalensis Sond. Tree of stream bank forest.

C. kraussii Hochst. Tree of mesophytic forest. Fls. green, Apr.–Jun.

C. spicata Thunb. Tree of grassland scrub and mesophytic forest. Fls. greenish, Aug.

Schefflera umbellifera Sond. Tree of swamp forest. Fl. Mrch.–Aug.

Umbelliferae

Centella coriacea Nannfd. Prostrate runner in grassland. Fl. Sep.–Mrch.

C. glabrata L. var. *natalensis* Adamson. Prostrate herb in grassland. Fl. Sep.–Dec.

Alepidea gracilis Duemmer var. *major* Weim. Herb in grassland. Fls. white, Dec.–Apr.

Pimpinella caffra (Eckl. & Zeyh.) Harv. Herb in grassland. Fls. white, Jan.

Peucedanum capense Sond. Herb in grassland. Fls. yellow, Mrch.

Myrsinaceae

Maesa lanceolata Forsk. Tree of swamp forest. Fls. white, Sep.–Nov.

Rapanea melanophloeos (L.) Mez. Tree of mesophytic forest. Fl. Aug.

Primulaceae

Anagallis tenuicaulis Bak. Herb in swampy places. Fls. white, Sep.–Nov.

Ebenaceae

Euclea crispa (Thunb.) Guerke var. *crispa*. Shrub in rocky grassland. Fruit Feb.–Mrch.

E. natalensis A.DC. Tree in mesophytic forest or low shrub in rocky grassland scrub. Fl. Sep.

Diospyros galpinii (Hiern) De Wint. Small shrub in grassland. Fls. creamy yellow, Oct.

D. lycioides Desf. subsp. *sericea* (Bernh.) De Wint. Shrub or low tree in forest margin. Fls. creamy yellow, Sep.

D. scabrida (Harv. ex Hiern) De Wint. var. *scabrida* de Wint. Shrub in stream bank forest. Fls. white, Aug.

D. simii (Kuntze) De Wint. Shrub of forest margin. Fls. creamy yellow, Oct.

D. villosa (L.) De Wint. Low tree of the forest margin. Fls. creamy yellow, Oct.

Oleaceae

Olea capensis L. subsp. *enervis* (Harv. ex C.H.Wr.) Verdoorn Tree in stream bank forest. Fls. white, Sep.

Jasminum multipartitum Hochst. Climber in grassland scrub. Fls. white, Aug.–Oct.

Loganiaceae

Strychnos spinosa Lam. Tree in grassland scrub. Fruit Dec.

Nuxia oppositifolia (Hochst.) Benth. Tree in stream bank forest and swamp forest. Fls. white, Oct.–Dec.

Gentianaceae

Sebaea sedoides Gilg. Herb in grassland. Fls. yellow, Sep.–Apr.

Chironia purpurascens (E. Mey.) Benth. & Hook. f. Herb in rocky grassland. Fl. Oct.–Jan.

Apocynaceae

- Carissa macrocarpa* (Eckl.) A.DC. Shrub in grassland scrub and forest margin. Fls. white, Aug.–Mrch.
C. tetramera (Sacleux) Stapf. Shrub in rock crevice. Fls. white, Jun.–Jul.
Tabernaemontana ventricosa Hochst. ex A.DC. Sub-canopy tree in swamp forest. Fls. white, fragrant, Sep.–Nov.
Voacanga thouarsii Roem. & Schult. Dominant tree in swamp forest. Fls. white, Nov.
Rauvolfia caffra Sond. Important tree in swamp forest. Fls. white, Aug.

Asclepiadaceae

- Raphionacme elata* N.E. Br. Herb on rocky soil. Fls. greenish, Oct.
R. hirsuta (E. Mey.) R. A. Dyer. Herb in grassland. Fls. purple, Aug.–Oct.
Xysmalobium involucreatum (E. Mey.) Decne. Herb in grassland. Fls. greenish, Oct.–Jan.
X. undulatum (L.) Ait. f. Herb in grassland. Fls. green-yellow, Oct.–Jan.
Schizoglossum cordifolium E. Mey. Herb in grassland. Fls. Sep.–Oct.
S. macowanii N.E. Br. var. *tugelense* N.E. Br. Herb in rocky grassland. Rare. Fls. white, Dec.
Pachycarpus appendiculatus E. Mey. Herb in grassland. Fls. pale yellow, Oct.–Nov.
P. concolor E. Mey. Herb in grassland. Fls. brown-red, Oct.–Feb.
Asclepias flexuosa Schltr. Prostrate herb in grassland. Fls. pink-brown, Sep.–Feb.
A. physocarpa Schltr. Woody herb of disturbed places. Fls. white, Sep.–Nov.
Cynanchum ellipticum (Harv.) R. A. Dyer. Liana in mesophytic forest. Fls. white, May–Sep.
Sarcostemma viminale R.Br. Liana in mesophytic forest. Fls. white, Jan.–Mrch.
Secamone gerrardii Harv. ex Benth. & Hook. f. Climber in swamp forest. Fls. yellow-brown, Sep.–Nov.
Sisyranchus compactus N.E. Br. Herb in grassland. Fls. green-white, Nov.
Ceropegia linearis E. Mey. Climber in grassland scrub. Fl. Mrch.
Riocrexia torulosa Decne. Climber in forest margin. Fls. white-green, Feb.
Huernia hystrix (Hook. f.) N.E. Br. Succulent pioneer on rock. Fls. maroon, Mrch.
Tylophora anomala N.E. Br. Liana in mesophytic forest. Fls. white, Sep.–Jan.
Telosma africana N.E. Br. Liana in stream bank forest.

Convolvulaceae

- Convolvulus farinosus* L. Climber in grassland scrub. Fls. white-pink, Aug.–Mrch.
Hewittia sublobata (L.f.) O. Kuntze. Trailing plant in grassland. Fls. pale yellow, Sep.–Nov.
Merremia tridentata (L.) Hall. f. subsp. *angustifolia* (Jacq.) Ooststr. Trailing herb in grassland. Fls. pale yellow, Feb.–Mrch.
Ipomoea cairica (L.) Sweet. Climber in swamp forest. Fls. maroon, Aug.–Sep.
I. pellita Hall. f. Trailing herb in grassland. Fls. maroon, Oct.–Feb.
I. wightii (Wall.) Choisy Climber in mesic forest. Fls. purple, Jun.–Aug.

Boraginaceae

- Cynoglossum lanceolatum* Forsk. Woody herb in kloof forest. Fls. white-blue, Dec.

Verbenaceae

- Verbena bonariensis* L. Woody herb on flood sands. Fls. mauve, Sep.–Nov.
V. tenuisecta Briq. Herb of disturbed places. Fls. purple, Sep.–Feb.
Lantana rugosa Thunb. Shrub in grassveld thickets. Fls. mauve, Sep.–Oct.
Lippia javanica (Burm. f.) Spreng. Woody herb in grassveld scrub. Fls. white, Sep.
Clerodendrum glabrum E. Mey. Tree in mesic forest. Fls. white, Feb.
C. myricoides (Hochst.) Vatke. Shrub in forest margin. Fls. purple, Aug.–Sep.

Labiatae

- Leonotis dysophylla* Benth. Woody herb of grassland. Fls. orange, Oct.–May.
Stachys aethiopica L. Herb in grassland. Fls. white, Aug.–Feb.
Hyptis pectinata Poit. Herb on stream bank. Fls. white, Jul.
Endostemon obtusifolius (E. Mey. ex Benth.) N.E. Br. Woody herb in forest margin. Fls. white, Sep.–Apr.
Pycnostachys reticulata (E. Mey.) Benth. Woody herb in vlei grassland. Fls. purple-blue, Apr.
Plectranthus tomentosus Benth. Woody herb in rocky grassland. Fls. mauve, Mrch.–Apr.
P. zuluensis T. Cooke. Woody herb on forest floor. Fls. purple-blue, Sep.–May.
Hoslundia opposita Vahl. Woody herb in grassland thicket. Fls. white, Jul.–Nov.
Syncolostemon argenteus N.E. Br. Woody herb in grassland. Fls. white, Jan.–Apr.
Ocimum canum Sims. Woody herb in disturbed grassland. Fls. white, Sep.–Nov.
Thorncroftia thorncroftii (S. Moore) L. E. Codd. Succulent on rocky habitat. Fls. pink, Oct.–Jan.

Solanaceae

- Withania somnifera* Dun. Woody herb in scrub thicket. Fls. yellow-green, Oct.–May.
Solanum mauritanium Scop. Tree in forest margin. Fls. purple, Sep.–May.
S. nigrum L. Herb of disturbed places. Fls. white, Aug.–May.
S. panduraeforme E. Mey. Weed of disturbed places. Fls. purple, Aug.–Dec.
S. sodomeum L. Woody herb in grassveld scrub. Fls. white, Sep.–Nov.
Datura ferox L. Woody herb of disturbed places. Fls. white, Feb.

Scrophulariaceae

- Diclis reptans* Benth. Trailing herb in grassland. Fls. white, Jul.–Sep.
Halleria lucida L. Tree in kloof forest. Fls. red, Aug.–Dec.
Manulea crassifolia Benth. Woody herb in grassland. Fls. orange, Aug.–Nov.
Zaluzianskya maritima Walp. Grassland herb. Fls. maroon, Aug.–Nov.
Lindernia nana (Engl.) Roessl. Herb in rocky places. Fls. white-mauve, Dec.
Ilysanthes dubia (L.) Bernh. Herb of vlei grassland. Fls. yellow, Jan.
Selago hyssopifolia E. Mey. Grassland herb. Fls. white, Aug.–Nov.
Alectra sessiliflora (Vahl) Kuntze. Semi parasitic herb in grassland. Fls. yellow, May.
A. orobanchoides Benth. Parasitic herb in rocky grassland. Fls. pale yellow, Mrch.–Apr.
Graderia scabra Benth. Grassland herb. Fls. pink, Sep.–Apr.
Sopubia simplex Hochst. Herb on marshy soil. Fls. pink, Nov.–Feb.
Buchnera glabrata Benth. Grassland herb. Fls. blue, Oct.–Feb.
Cynium adonense E. Mey. Semi parasitic herb in grassland. Fls. white, Sep.–Nov.
Ramphicarpa tubulosa Benth. Semi parasitic herb in swampy grassland. Fls. white, Sep.–Dec.
Striga elegans Benth. Semi parasitic herb in grassland. Fls. red, Sep.
S. gesnerioides (Willd.) Vatke. Parasitic herb in rocky grassland. Fls. pink, Jan.

Bignoniaceae

- Tecomaria capensis* Spach. Shrub in kloof forest. Fls. orange, Jan.–May.

Pedaliaceae

- Ceratotheca triloba* E. Mey. Herb in rocky grassland. Fls. mauve, Sep.–Apr.

Lentibulariaceae

- Utricularia livida* E. Mey. Insectivorous herb in swampy habitat. Fls. pink, Aug.

Acanthaceae

- Thunbergia atriplicifolia* E. Mey. ex Nees Grassland herb. Fls. pale yellow, Oct.–Nov.
Phaulopsis imbricata (Forsk.) Sweet. Herb on forest edge and floor. Fls. white, Jun.–Sep.

- Chaetacanthus setiger* (Pers.) Lindl. Grassland herb. Fls. white, Oct.–Nov.
Ruellia cordata Thunb. Woody herb in rocky grassland. Fls. blue, Oct.–Nov.
Crabbea hirsuta Harv. Herb in rocky grassland. Fls. white, Jan.–Apr.
C. nana Nees. Herb in rocky grassland. Fls. white, Sep.
C. pedunculata N.E. Br. Herb in rocky grassland. Fls. white, Sep.
Barleria lancifolia T. Anders. Herb in rocky grassland. Fls. mauve, Dec.–Apr.
Crossandra greenstockii S. Moore. Grassland herb. Fls. orange, Oct.–Nov.
Asystasia gangetica (L.) T. Anders. Herb in forest margin. Fls. white, Sep.–Jan.
Hypoestis aristata R.Br. Herb on floor of swamp forest. Fls. pink, May.–Jun.
H. verticillaris R. Br. Herb on swampy soil. Fls. white, Apr.–Jun.
Justicia betonica L. Herb in stream bank vegetation. Fls. white, Jul.–Aug.

Rubiaceae

- Agathisanthemum bojeri* Klotzsch. Grassland herb. Fls. white, Feb.
Kohautia amatymbica Eckl. & Zeyh. Grassland herb. Fls. white, Sep.
Oldenlandia cephalotes (Hochst.) Kuntze. Trailing herb on swampy soil. Fls. white, Aug.–Jan.
O. affinis (Roem. & Schult.) DC. Herb in rocky grassland. Fls. purple, Nov.–Mrch.
O. herbacea (L.) Roxb. Herb in rocky grassland. Fls. white, Oct.–Nov.
Pentas angustifolia (A. Rich. ex DC.) Verdc. Grassland herb. Fls. blue, Feb.–Jun.
P. micrantha Bak. subsp. *wyliei* (N.E. Br.) Verdc. Woody herb in forest margin. Fls. white, Feb.
Burchellia bubalina (L.f.) Sims. Shrub in kloof forest. Fls. orange, Aug.–Nov.
Xeromphis obovata (Hochst.) Keay. Tree in kloof forest. Fls. white to creamy-white, Sep.–Nov.
Gardenia spatulifolia Stapf Hutch. Small tree in rocky grassland scrub. Fls. white, sweet scented; Sep.–Nov.
Kraussia floribunda Harv. Shrub in kloof forest. Fls. white, Oct.
Pentanisia prunelloides (Kl. ex Eckl. & Zeyh.) Walp. Grassland herb. Fls. blue, Oct.–Jul.
Vangueria infausta Burch. Tree in forest margin and thickets. Fls. green-yellow, Sep.–Oct.
Canthium guenzii Sond. Liana in swamp forest. Fls. white, Sep.–Oct.
C. ventosum (L.) S. Moore. Tree in mesic forest. Fls. green, Oct.
Pachystigma latifolium Sond. Grassland shrub. Fls. green, Oct.–Dec.
Pavetta delagoensis Brem. Shrub in rocky grassland. Fls. white, Dec.
P. edentula Sond. ex Harv. & Sond. Tree in rocky grassland. Fls. white, Nov.–Feb.
P. gracilifolia Brem. Shrub in rocky grassland. Fls. white, Oct.
P. lanceolata Eckl. Tree in stream bank forest. Fls. white, Oct.–Nov.
Psychotria capensis (Eckl.) Vatke. Shrub in stream bank forest. Fls. yellow, Sep.–Nov.
P. zombamontana (Knutze) Petit. Shrub in mesic forest.
Galopina circaeoides Thunb. Prostrate herb in moist places. Fls. white, Nov.–Mrch.
Anthospermum herbaceum L.f. Herb in rocky grassland. Fls. white, Dec.–Feb.
Richardia brasiliensis Gomez. Grassland herb. Fls. white, Sep.–Feb.
Diodia natalensis (Hochst.) K. Schum ex S. Moore & Garc. Grassland herb. Fls. white, Apr.–May.
Borreria scabra (Schum. & Thonn.) K. Schum. Herb in rocky grassland. Fls. white, Dec.
Rubia cordifolia L. Climber in scrub forest. Fls. white, May.

Dipsacaceae

- Scabiosa columbaria* L. Grassland herb. Fls. white, Aug.–May.

Cucurbitaceae

- Kedrostis foetidissima* (Jacq.) Cogn. Herbaceous climber in swamp forest. Fls. white, Sep.
Cucumis hirsutus Sond. Trailing herb in grassland. Fls. yellow, Sep.–Oct.
C. zeyheri Sond. Trailing herb in grassland. Fls. yellow, Sep.–Mrch.

Campanulaceae

Wahlenbergia caledonica Sond. Grassland herb. Fls. blue, Sep.–May.

Cyphia elata Harv. Grassland herb. Fls. yellow, Jan.–May.

Lobelia alata Labill. Grassland herb. Fls. blue, Sep.–Nov.

L. filiformis Lam. var. *natalensis* (A.DC.) E. Wimm. Herb of shady habitat. Fls. mauve-blue, Sep.–Nov.

Monopsis belliflora E. Wimm. Herb in swampy places. Fls. yellow, Sep.–Nov.

M. scabra (Thunb.) Urb. Herb in swampy places. Fls. brownish-purple, Nov.–Apr.

Compositae

Ethulia conyzoides L. Herb in stream bank vegetation. Heads mauve, Aug.–Sep.

Vernonia angulifolia DC. Climber in forest margin. Heads mauve, Dec.–Jun.

V. corymbosa (Thunb.) Less. Woody herb in grassland scrub. Heads purple-white, Feb.

V. hirsuta Sch. Bip. Grassland herb. Heads mauve, Aug.–Nov.

V. oligocephala (DC) Sch. Bip. ex Walp. Grassland herb. Heads mauve, Sep.–Oct.

V. capensis (Houtt.) Druce. Grassland herb. Heads purple, Jul.–Oct.

Adenostemma perrottettii DC. Herb on floor of swamp forest. Heads white, Jan.–Feb.

Ageratum conyzoides L. Herb on a swampy soil. Heads mauve, Jul.–Sep.

Mikania natalensis DC. Climber in swamp forest. Heads white, Mrch.–Aug.

Aster bakerianus Burt Davy ex C.A.Sm. Grassland herb. Heads blue, Jul.–Oct.

A. lutea (N.E.Br.) Grassland herb. Heads yellow, Jul.–Oct.

Erigeron floribundus (H.B.K.) Sch. Bip. Herb of disturbed places. Heads pale yellow, Jan.

Nidorella auriculata DC. Grassland herb. Heads yellow, Jul.–Feb.

Conyza ulmifolia (Burm.) Kuntze. Grassland herb. Heads yellow, Jan.–May.

C. bonariensis (L.) Cronq. Herb of disturbed places. Heads pale yellow, Jan.

C. species (Venter 1417) Grassland herb. Fl. Dec.

Brachylaena discolor DC. Tree in mesic forest. Heads creamy-white, Jul.–Oct.

B. transvaalensis Phill. & Schweick. Tree in mesic forest. Heads creamy-white, Jul.–Oct.

Tarchonanthus galpinii Hutch. & Phill. Tree in rocky grassland. Fl. Sep.–Oct.

Blumea lacera DC. Grassland herb. Heads pink, Sep.–Dec.

Epaltes gariiepina (DC) Steetz. Grassland herb.

Helichrysium adenocarpum DC. (Thunb.) Grassland herb. Heads white-red, Aug.–May.

H. adscendens Less. Grassland herb. Heads yellow, Aug.–Mrch.

H. appendiculatum (L.f.) Less. Grassland herb. Heads yellow, Sep.–Mrch.

H. callicomum Harv. Grassland herb. Heads yellow, Nov.

H. cooperi Harv. Herb in vlei grassland. Heads yellow, Nov.

H. decorum DC. Herb in rocky grassland. Heads yellow, Sep.–Apr.

H. griseum Sond. Herb in rocky grassland. Heads yellow-red, Aug.–Oct.

H. kraussii Sch. Bip. Grassland herb. Heads pale yellow, Jul.–Sep.

H. longifolium DC. Grassland herb. Heads pale yellow, Oct.

H. miconiaefolium DC. Grassland herb. Heads yellow, Sep.–Nov.

H. nudifolium (L.) Less. Grassland herb. Heads yellow, Aug.–Jan.

H. nodifolium (L.) Less. var. *quinquenerve* (Thunb.) Moeser. Grassland herb. Heads yellow, Aug.–Jan.

H. panduratum O. Hoffm. Grassland herb. Heads yellow-white, Nov.–Dec.

H. rugulosum Less. Grassland herb. Heads white-maroon, Oct.–May.

H. setosum Harv. Grassland herb. Heads yellow, Apr.–Jun.

Athrixia Phyllicoides DC. Grassland herb. Heads light purple, Nov.–Jun.

Callilepis laureola DC. Heads white, Aug.–Oct.

Acanthospermum australe (Loefl.) Kuntze. Weed of disturbed places. Fruiting Aug.–Feb.

Annotated Check-list to Flora of Ubisana 1

- A. hispidum* DC. Weed of disturbed places. Fruiting Apr.
Xanthium spinosum L. Weed of disturbed places. Fl. Sep.–Dec.
Siegesbeckia orientalis L. Herb on disturbed soil. Heads yellow, Sep.–Dec.
Aspilia mossambicensis (Oliv.) Wild. Grassland herb. Heads orange-yellow. Sep.–Apr.
Spilanthes mauritiana (Rich. ex Pers.) DC. Herb on disturbed soil. Heads yellow, Sep.
Bidens pilosa L. Weed of disturbed places. Heads white, Sep.–Mrch.
Senecio bupleuroides DC. Grassland herb. Heads yellow, Sep.–Mrch.
S. deltoideus Less. Climber in mesic forest. Heads yellow, May–Oct.
S. erubescens Ait. Grassland herb. Heads mauve-purple, Jul.–Nov.
S. erubescens Ait. var. *incisus* DC. Grassland herb. Heads mauve, Aug.–Nov.
S. latifolius DC. Grassland herb. Heads yellow, Sep.–Jan.
S. mikanioides Otto. Climber in kloof forest. Heads yellow, May–Sep.
S. oxyodontus DC. Grassland herb. Heads yellow, Apr.–May.
S. oxyriaefolius DC. Succulent herb in rocky grassland. Fl. Oct.
S. pterophorus DC. Grassland herb. Heads yellow, Sep.–Nov.
S. inaequidens DC. Grassland herb and weed of disturbed places. Heads yellow, Aug.–May.
S. serratuloides DC. Grassland herb. Heads yellow, Feb.–May.
S. tamoides DC. Climber in kloof forest. Heads yellow, May.
Euryops laxus (Harv.) Burt Davy. Grassland herb. Heads yellow, Oct.
Osteospermum grandidentatum DC. Grassland herb. Heads yellow, Oct.–Nov.
O. imbricatum L. Grassland herb. Heads yellow, Aug.–Apr.
Chrysanthemoides monilifera (L.) T. Norl. subsp. *rotundata* (DC.) T. Norl. Shrub in grassland scrub. Heads yellow, Aug.–Dec.
Gazania krebsiana Less. subsp. *serrulata* (DC.) Roessl. Grassland herb. Heads yellow, Oct.
Berkheya bipinnatifida (Harv.) Roessl. Woody herb in grassland scrub. Heads white, Feb.–May.
B. discolor (DC.) O. Hoffm. & Muschl. Grassland herb. Heads yellow, Aug.–May.
B. insignis (Harv.) Thell. Grassland herb. Heads orange-yellow, Oct.
B. erysioides (DC.) Roessl. Woody herb in shrub thicket.
B. setifera DC. Grassland herb. Heads yellow, Oct.
B. speciosa (DC.) O. Hoffm. Grassland herb. Heads yellow, Aug.–Feb.
Cirsium vulgare (Savi.) Ten. Weed of disturbed places. Heads purple, Sep.–Apr.
Gerbera ambigua Sch. Bip. Grassland herb. Heads creamy yellow, Aug.–Sep.
G. natalensis Sch. Bip. Grassland herb. Heads white-purple, Aug.–Nov.
G. piloselloides (L.) Cass. Grassland herb. Heads yellow, Aug.–Oct.
Sonchus asper (L.) Hill. Grassland herb. Heads yellow, Jul.–Aug.
Lactuca capensis Thunb. Grassland herb. Fl. Aug.–Oct.
Crepis hypochaeridia (DC.) Thell. Herb in rocky grassland. Heads yellow, Aug.–Oct.
Tolpis capensis (L.) Sch. Bip. Grassland herb. Fl. Sep.

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